WHAT IS CLAIMED IS:

- A balance (1), comprising a weighing pan (3), a 1 2 weighing compartment (2) surrounding the weighing pan on all sides, a draft shield (4) enclosing the weighing 3 compartment, and a stationary part, wherein the draft shield 4 5 has at least one vertical wall (8) formed as a component of 6 the stationary part, wherein at least one thermoelectric 7 module (16) is arranged outside of the weighing compartment 8 (2) near the stationary part in a lower portion of the balance and thermally connected to the stationary part, 9 wherein the at least one vertical wall (8) has a lower end 10 portion in thermal connection with the thermoelectric module 11 (16), and wherein the at least one vertical wall (8) is 12 configured in such a way that a temperature gradient with a 13 bottom-to-top temperature increase develops in said at least 14 15 one vertical wall (8).
 - 2. The balance (1) according to claim 1, wherein the stationary part of the balance has a floor plate (11) extending over the entire length of the balance (1) and consisting of a material with good thermal conductivity, said floor plate (11) being in thermal connection with the at least one thermoelectric module (16).
 - 3. The balance (1) according to claim 1, wherein the stationary part includes a measuring cell compartment (9) and a balance housing (10) surrounding the measuring cell compartment, and wherein the at least one vertical wall (8) is configured as a separating wall between the weighing compartment (2) and the measuring cell compartment (9).
 - 1 4. The balance (1) according to claim 3, wherein

- 2 the measuring cell compartment (9) contains air with a
- 3 vertical air temperature gradient with a bottom-to-top
- 4 temperature increase.
- 1 5. The balance (1) according to claim 1, wherein
- 2 the weighing compartment (2) at least near the weighing pan
- 3 (3) contains air with a vertical air temperature gradient
- 4 with a bottom-to-top temperature increase.
- 1 6. The balance (1) according to claim 1, wherein
- 2 respective temperatures in an upper end and a lower end of
- 3 at least one of the at least one vertical wall (9) and the
- 4 weighing compartment (2) differ by substantially no more
- 5 than 1°C.
- The balance (1) according to claim 6, wherein
- 2 said respective temperatures differ by substantially no more
- 3 than 0.5°C.
- 1 8. The balance (1) according to claim 3, wherein
- 2 respective temperatures in an upper end and a lower end of
- 3 the measuring cell compartment (9) differ by substantially
- 4 no more than 1°C.
- 1 9. The balance (1) according to claim 8, wherein
- 2 said respective temperatures differ by substantially no more
- 3 than 0.5°C.
- 1 10. The balance (1) according to claim 2, wherein
- 2 the floor plate (11) has a temperature that is no higher
- 3 than a few tenths of a degree Celsius above ambient
- 4 temperature, substantially no more than one half degree Celsius.

- 1 11. The balance (1) according to claim 10, wherein
- 2 said temperature is a few tenths of a degree Celsius below
- 3 ambient temperature, substantially no more than one half degree Celsius.
- 1 12. The balance (1) according to claim 2, wherein
- 2 the at least one thermoelectric module (16) has a hot side
- 3 and a cold side and is attached to the floor plate (11) with
- 4 the cold side facing towards the floor plate (11) and the
- 5 hot side facing towards an outside environment of the
- 6 balance.
- 1 13. The balance (1) according to claim 2, further
- 2 comprising a heat-conducting body (15) connected to the
- 3 floor plate (11) and the vertical wall (8), wherein the at
- 4 least one thermoelectric module (16) has a hot side and a
- 5 cold side and is attached to the heat-conducting body (15)
- 6 with the cold side facing towards the heat-conducting body
- 7 (15) and the hot side facing towards an outside environment
- 8 of the balance.
- 1 14. The balance (1) according to claim 1, further
- 2 comprising a heat sink (17) connected to a hot side of the
- 3 at least one thermoelectric module (16) to provide a rapid
- 4 heat removal into ambient air.
- 1 15. The balance (1) according to claim 3, wherein
- 2 the measuring cell compartment (9) comprises a weighing-cell
- 3 electronics (20) module arranged in an upper half of the
- 4 measuring cell compartment (9), so that a heat flow is
- 5 generated from the weighing cell electronics (20) to the at
- 6 least one vertical wall (8) and said heat flow enhances the
- 7 temperature gradient in the stationary vertical wall.

- 1 16. The balance (1) according to claim 15, wherein
- 2 said electronics (20) module is arranged in the top third of
- 3 the measuring cell compartment (9).
- 1 17. The balance (1) according to claim 1, wherein
- 2 the at least one vertical wall (8) has a material thickness
- 3 that decreases in the bottom-to-top direction.
- 1 18. The balance (1) according to claim 1, further
- 2 comprising an indicating- and operating unit (13) which can
- 3 be brought into thermal contact with the floor plate (11) to
- 4 remove heat caused by power dissipation of the indicating-
- 5 and operating unit (13).
- 1 19. The balance (1) according to claim 1, wherein
- 2 the draft shield (4) comprises a front wall (5) with a
- 3 metallic frame that is connected to the floor plate (11).